

ABSTRACT

To provide a corona discharge ionizer that makes it possible to use a piezoelectric transformer by adding an effective ion balance function with a simple structure without applying particular changes to the structure, and that
5 realizes noise reduction.

In a corona discharge ionizer 10, a control electrode 6 is disposed in a cylindrical portion of an air supply pipe 2 which also functions as a shield body and at a location where ions are balanced. When a cylindrical inner diameter of the air supply pipe 2 is defined as D_s and
10 an annular outer diameter of the control electrode 6 is defined as D_c , $2D_c < D_s$ is satisfied.